

1 CLAIMS:

1 1. A load cell apparatus comprising:

2 (a) a frame;

3 (b) an upper compliance assembly connected to said frame;

4 (c) a load cell connected to said upper compliance assembly; and

5 (d) a lower compliance assembly connected to said load cell.

1 2. The apparatus of Claim 1 wherein said upper and lower compliance assemblies further comprise:

2 (a) a first base;

3 (b) a compression pad connected to said first or second base;

4 (c) a rebound pad;

5 (d) a load plate between said rebound pad and said compression pad; and

6 (e) a second base connected to said rebound pad or said compression pad.

1 3. The apparatus of Claim 1 wherein said load cell further comprises:

2 (a) a load cell yoke connected to said upper assembly; and

3 (b) an upper and lower loading saddle connected to said load cell.

1 4. The apparatus of Claim 1 further comprising an overload limit.

1 5. The apparatus of Claim 4 wherein said overload limit further comprises:

2 (a) a fixed overload limit; and

3 (b) a moving overload limit.

1 6. The apparatus of Claim 1 wherein said upper compliance assembly and said load cell are
2 connected to each other and to said frame by a hanger stud.

1 7. The apparatus of Claim 1 wherein said lower compliance assembly further comprises:

2 (a) a rod end link connected to said load cell; and

3 (b) a drawbar connected to said rod end link.

1 8. The apparatus of Claim 1 further comprising a rotation preventor.

1 9. The apparatus of Claim 7 further comprising a rotation preventor connected to said
2 drawbar.

1 10. The apparatus of Claim 1 further comprising a data transfer means for providing data to
2 the load cell and for receiving data from the load cell.

1 11. In a weighing system, a load cell method comprising the steps of:

2 (a) connecting a frame to the weighing system;

3 (b) connecting an upper compliance assembly to said frame;

4 (c) connecting a load cell to said upper compliance assembly; and
5 (d) connecting a lower compliance assembly to said load cell.

1 12. The method of Claim 11 further comprising the step of providing said upper and lower
2 compliance assemblies with:

3 (a) a first base;
4 (b) a compression pad;
5 (c) a rebound pad;
6 (d) a load plate located between said rebound pad and said compression pad; and
7 (e) a second base.

1 13. The method of Claim 11 further comprising the steps of:

2 (a) connecting a load cell yoke to the upper assembly; and
3 (b) connecting an upper and lower loading saddle to said load cell.

1 14. The method of Claim 11 further comprising the step of connecting an overload limit.

1 15. The method of Claim 14 wherein connecting said overload limit further comprises the steps

2 of:

3 (a) providing a fixed overload limit; and
4 (b) providing a moving overload limit.

